








## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: <b>PCT/US96/18185</b></p> <p>(22) International Filing Date: <b>29 October 1996 (29.10.96)</b></p> <p>(30) Priority Data: 08/564,596      29 November 1995 (29.11.95)      US 08/636,798      22 April 1996 (22.04.96)      US</p> <p>(71) Applicant: <b>PHYSICAL OPTICS CORPORATION [US/US];</b> Building 100, 20600 Gramercy Place, Torrance, CA 90501 (US).</p> <p>(72) Inventors: <b>RIZKIN, Alexander; 1191 Camino De La Costa #403, Rendon Beach, CA 90277 (US). SADOVNIK, Lev, S.; 8061 Romaine Street #207, Los Angeles, CA 90046 (US). MANASSON, Vladimir; 1538 North Martel Avenue #114, Los Angeles, CA 90046 (US).</b></p> <p>(74) Agents: <b>NILLES, Andrew, J. et al.; Nilles &amp; Nilles, S.C., Suite 2000, 777 East Wisconsin Avenue, Milwaukee, WI 53202 (US).</b></p>		<p>(81) Designated States: CA, JP, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p><b>Published</b> <i>With international search report.</i></p>
<p>(54) Title: <b>UNIVERSAL REMOTE LIGHTING SYSTEM</b></p> <div><pre>graph LR     subgraph Illuminator_10 [Illuminator 10]         LS[Light Source 210] --&gt; FOC[FOCS 220]     end     FOC --&gt; LP[Light Pipes 230]     LP --&gt; BF1[Beam Former 240]     LP --&gt; BF2[Beam Former 240]     LP --&gt; BF3[Beam Former 240]     subgraph BF2_Box [Beam Former 240]         BF2 --&gt; LT[Light Transformer 250]         LT --&gt; LSD[Light Shaping Diffuser 260]         LSD --&gt; CF[Color Filter 265]     end</pre></div> <p>(57) Abstract</p> <p>Systems and methods for universal remote lighting systems are described. A high definition universal remote lighting system includes a light source (210) that is coupled to a light pipe (230), a high efficiency light transformer design (250) and a high efficiency holographic diffuser (260) for shaping the light. The present invention can also include an optical switch device (100) for direct light output monitoring. The systems and methods provide advantages such as cost reduction, better monitoring and control, maintenance simplification, enhanced personnel safety, electromagnetic impulse (EMI) insensitivity, reduced radar and weight/size reduction.</p>		






**UNIVERSAL REMOTE LIGHTING SYSTEM**

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**Applicant:** PHYSICAL OPTICS CORP (US)  
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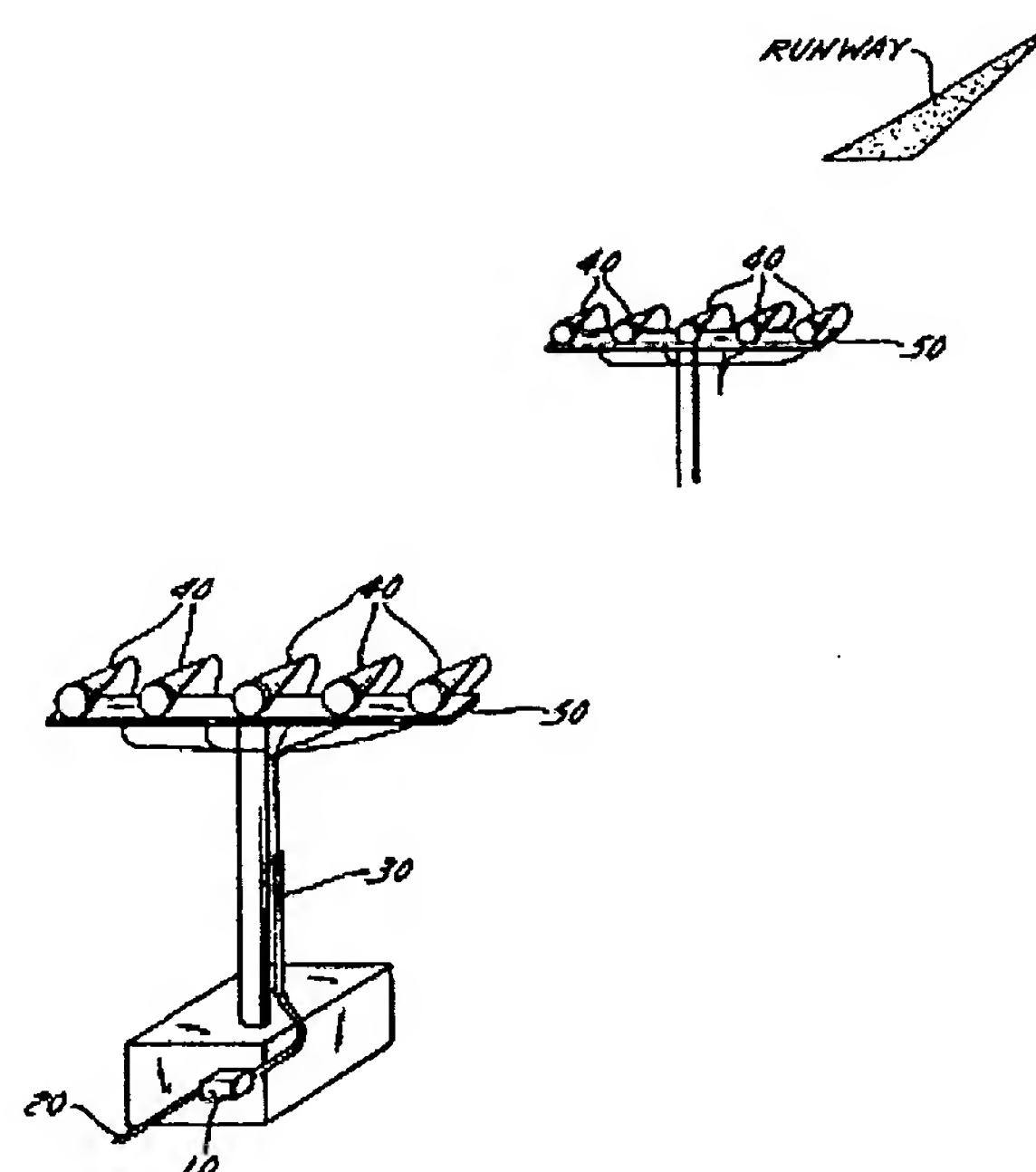
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**Abstract of WO9720169**

Systems and methods for universal remote lighting systems are described. A high definition universal remote lighting system includes a light source (210) that is coupled to a light pipe (230), a high efficiency light transformer design (250) and a high efficiency holographic diffuser (260) for shaping the light. The present invention can also include an optical switch device (100) for direct light output monitoring. The systems and methods provide advantages such as cost reduction, better monitoring and control, maintenance simplification, enhanced personnel safety, electromagnetic impulse (EMI) insensitivity, reduced radar and weight/size reduction.



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